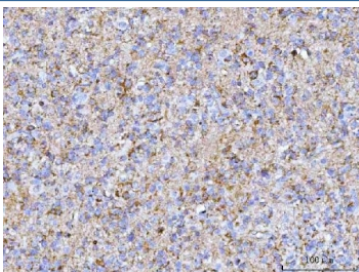


HBBM Antibody / Heparin-binding brain mitogen / Pleiotrophin (RQ7844)

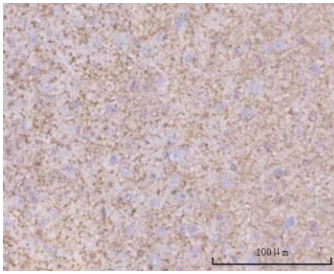
Catalog No.	Formulation	Size
RQ7844	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

[Bulk quote request](#)

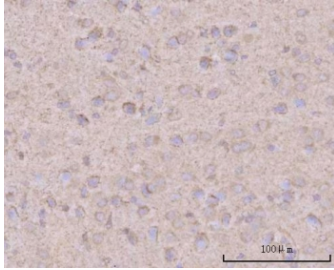
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P21246
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This HBBM antibody is available for research use only.



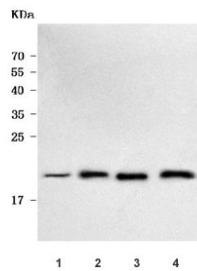
IHC staining of FFPE human glioma tissue with HBBM antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



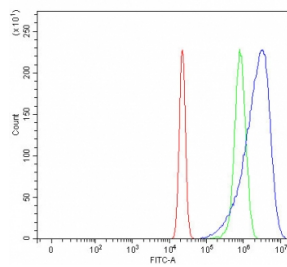
IHC staining of FFPE mouse brain tissue with HBBM antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat brain tissue with HBBM antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) huma U-251, 2) rat brain, 3) rat C6 and 4) mouse brain tissue lysate with HBBM antibody. Predicted molecular weight ~19 kDa.



Flow cytometry testing of human U-2 OS cells with HBBM antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= HBBM antibody.

Description

Pleiotrophin (PTN), also known as heparin-binding brain mitogen (HBBM), heparin-binding growth factor 8 (HBGF-8), neurite growth-promoting factor 1 (NEGF1), heparin affinity regulatory peptide (HARP), heparin binding growth associated molecule (HB-GAM) and Osteoblast-specific factor 1 (OSF-1), is a protein that in humans is encoded by the PTN gene. PTN is the first member of a family of developmentally regulated cytokines. The PTN gene is mapped to 7q33-q34. A mutant PTN that contained only the first N-terminal 40 amino acids was a dominant negative. Pleiotrophin is expressed in the central and peripheral nervous system and also in several non-neural tissues, notably lung, kidney, gut and bone. Pleiotrophin binds to cell-surface nucleolin as a low affinity receptor. This binding can inhibit HIV infection.

Application Notes

Optimal dilution of the PTN antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant human protein (amino acids D61-K148) was used as the immunogen for the HBBM antibody.

Storage

After reconstitution, the HBBM antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.